$-\varepsilon_{ijk}\varepsilon_{emk} n_i n_e \sigma_m$ $+ n_j n_e \sigma_e$

$\delta_{ie}\delta_{jm} n_i n_e \sigma_m$

$\delta_{em}\delta_{je} n_i n_e \sigma_m$ $+ n_j n_e \sigma_e$

$-\sigma_j + n_m n_j \sigma_m + n_j n_e \sigma_e$

$-\sigma_j + 2 n_j n_e \sigma_e$

$\cos\theta\, \delta_{ji} + (1-\cos\theta) n_j n_i$

$-\sin\theta\, \varepsilon_{jie} n_e$

$e^{i\theta/2\,\sigma\cdot\hat{n}}\, \underset{\sim}{\sigma}\, e^{-i\theta/2\,\sigma\cdot\hat{n}} = R(\hat{n},\theta)\underset{\sim}{\sigma}$